



# Rocky Dewan

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ML/AI Engineer (3+ yrs) • Software Developer (2+ yrs) • Web Developer (2+ yrs)

## Profile Summary

- **Data Processing & Visualization:** Skilled in Python (Pandas, NumPy, Matplotlib, Seaborn) for efficient data extraction, cleaning, and analysis.
- **LLM Training & Deployment:** Hands-on experience fine-tuning and deploying large language models.
- **AI Projects:** Built 7+ full-stack AI systems including chatbots, dashboards, and reporting platforms.
- **Cross-Platform Development:** Proficient in Python, C++, JavaScript for IoT, embedded, and web.
- **Optimization & Scalability:** Focused on improving model accuracy and deployment efficiency.

## Technical Skills

- **Languages:** C++, Python, Java, JavaScript, HTML, CSS
- **Databases:** MongoDB, MySQL, Firebase
- **ML/AI:** TensorFlow, PyTorch, Scikit-learn, Keras, LLMs, CNNs, NLP
- **Visualization:** Matplotlib, Seaborn, Plotly
- **Frameworks:** Django, Flask, FastAPI, Streamlit, React
- **DevOps:** Git, Docker, AWS, CI/CD, Linux, Postman

## Key Projects

### Birds Species Classification using Transfer Learning 2025

Achieved 98.47% accuracy in classifying bird species using advanced deep transfer learning techniques. Implemented EfficientNetB3 and ResNet152V2 architectures for robust model performance.

**Tools:** Python, TensorFlow, Keras, Transfer Learning, EfficientNetB3, ResNet152V2, Matplotlib, Scikit-learn

GitHub Repo: [github.com/Rocky-Dewan/Birds-Classification-using-Transfer-Learning](https://github.com/Rocky-Dewan/Birds-Classification-using-Transfer-Learning)

### AttendSure: AI-Powered Attendance & Analytics 2025

Built an intelligent attendance system using facial recognition and engagement analytics. Integrated real-time visualization and barcode-based entry verification for secure classroom tracking.

**Tools:** Python, OpenCV, Flask, Firebase Realtime Database, Face Recognition, HTML, CSS, JS, Bootstrap, Barcode Scanner

GitHub Repo: [github.com/Rocky-Dewan/AttendSure](https://github.com/Rocky-Dewan/AttendSure)

### CityPulse: Smart Urban Issue Reporting Platform 2025

A full-stack web platform allowing users to report city issues (e.g., potholes, garbage) with geolocation support and visual tracking.

**Tools:** JavaScript, React.js, MongoDB, Tailwind CSS, OpenStreetMap API, Axios, REST API, Postman, Render

GitHub Repo: [github.com/Rocky-Dewan/City-Pulse](https://github.com/Rocky-Dewan/City-Pulse)

### AI ChatBot for School Management System 2024

Designed and deployed an NLP-based chatbot to automate and streamline queries for a school management application.

**Tools:** Python, PHP, MySQL, NLP, Flask, HTML, CSS, JavaScript, AJAX

GitHub Repo: [github.com/Rocky-Dewan/ChatBot](https://github.com/Rocky-Dewan/ChatBot)

**More Projects:** [github.com/Rocky-Dewan](https://github.com/Rocky-Dewan)

## Experience

### AI Software Engineer (Remote) — Fanni AI, Jordan Mar–Apr 2025

Developed AI-driven features for e-commerce, optimizing performance using scalable ML pipelines.

## Education

### B.Sc. in Computer Science and Engineering 2022–2026

Bangladesh University of Business and Technology (BUBT), Dhaka

## Volunteering & Activities

- Volunteer — ICPC Programming Contest (2023), Bangladesh AI Olympiad 2025
- Participant — ICPC Asia Dhaka Regional Preliminary 2022

## Achievements

- First Runner-up — Bird Classifier, Tech Brainstorm 2024
- Champion — IoT Attendance System, Tech Brainstorm 2025